ROUTE SELECTION IN MOBILE AD-HOC NETWORKS BASED ON TRAFFIC STATE INFORMATION

Abstract of the Disclosure

[0036] Message data is routed from a source node to a destination node in a mobile ad hoc network (MANET) having a plurality of intermediate mobile nodes between a source node and a destination node, and a plurality of wireless communication links connecting the nodes together. Traffic state information is obtained about the intermediate nodes between the source node and the destination node. The traffic state information includes node resource utilization information, node residual capacity information, and node transit delay information. Candidate routes are discovered from the source node to the destination node, and one or more routes are selected from among the candidate routes to distribute message data to the destination node based upon the number of intermediate nodes and the traffic state information obtained for each of the intermediate nodes on the discovered route.